

FIGURE 1

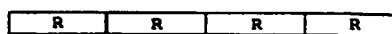
Generating Molecular Diversity using NCL*

CXC chemokine



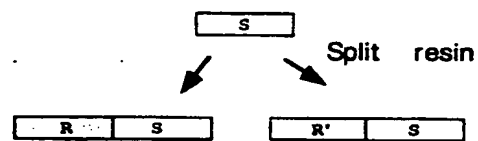
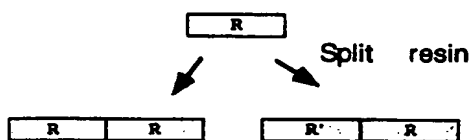
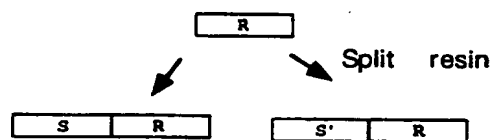
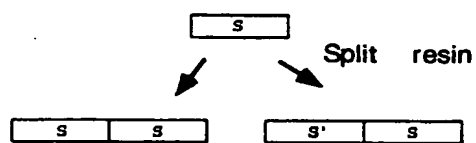
SDF1 α

CC chemokine

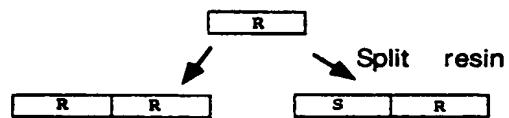
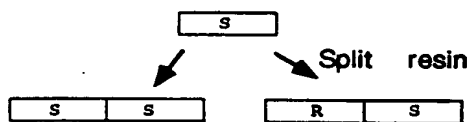


RANTES

8x N-terminal modules



4x C-terminal modules



Ligation at Xxx-Cys bond to generate hybrid molecule

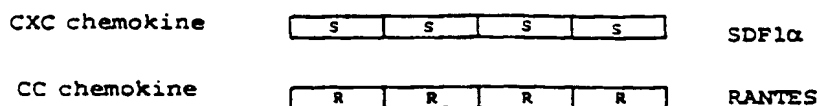
*NCL= native chemical ligation

S' = -Pro & R = +Pro

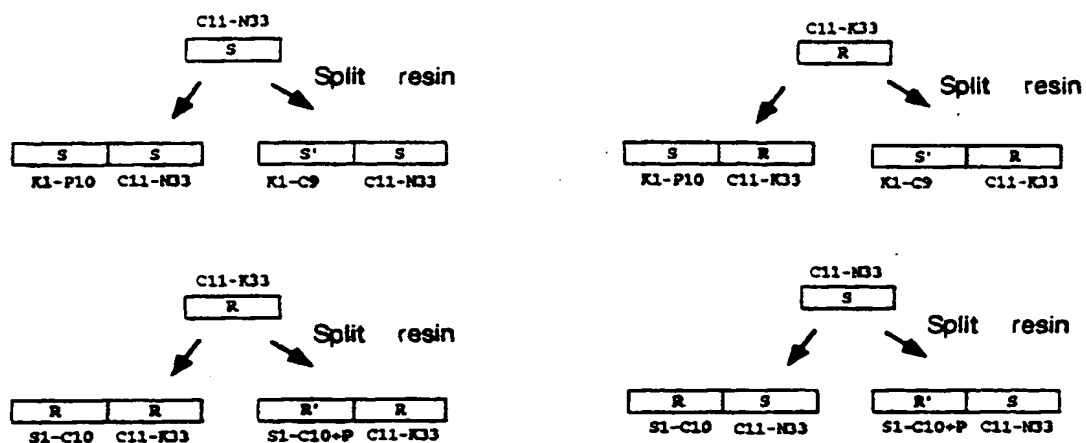
20140320 09:44:16

FIGURE 2

Generating Molecular Diversity using NCL*



8x N-terminal modules



4x C-terminal modules



Ligation at Xxx-Cys bond to generate hybrid molecule

*NCL= native chemical ligation

S' = -Pro & R' = +Pro

The two amino acids preceding the central cysteine are evaluated when designing improved agonists or antagonists. MPBV* (vMIP-I or vMIP-II)

[illegible][illegible][illegible]

* = Hydrophobic core side chains, highly conserved.

Bolded positions indicate conservation between all 3 or (MPBV and another).

$\uparrow \cdot =$ Unique position, MPBV matches neither RANTES nor SDF1 α .

All three N-termini are unique. Likewise the two positions before the central cysteine are unique.

FIGURE 4

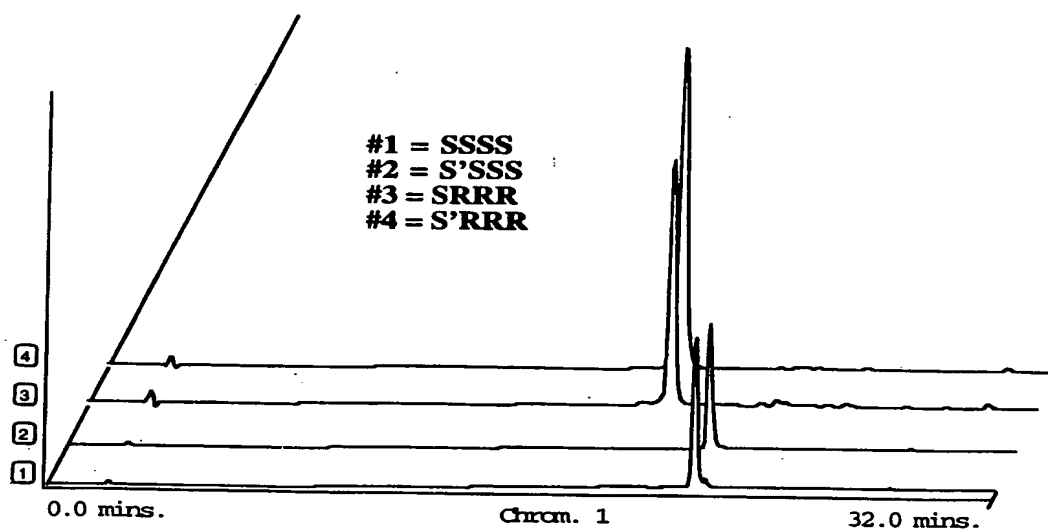


FIGURE 5

